



Arabidopsis_ (gi 3935185)	TKVEHRTKPLVVTTPQVNYTA--YEMDRFFADIGFSQGVVPYKTRVLPLTEELMTPGVPV		
corn_ (SEQ ID NO:2)	PAVFG--RPLVVTARNYSA--YDLELLVAVGYGAGVEFERRRAVPKMSYFQAPMVPT		
corn_ (SEQ ID NO:4)	PNAFRA-GQPLVTTTSTRTYTA--HDMADFDAIGLGAIVPYQSRVLPFLFRELPSRVPV		
corn_ (SEQ ID NO:6)	PAVEGRLQAPLVVTRERNYSASAHDMERELAAVGSGEAAEFERRRAVPKMGSAAPMVP		
soybean_ (SEQ ID NO:8)	PKIF-GPQKPIVITPIRPSA--HDMVDFLKDIGFPEGVYPYETRIPLIGNIKAPQVPI		
Arabidopsis_ (gi 3935185)	TCIY	KQPEIK-	ASLAAL-----KVDS-LN
corn_ (SEQ ID NO:2)	TCMN	ATPEIV-	VSMLAFDEKMRROPEQNKVYK
corn_ (SEQ ID NO:4)	ACVV	VTPMMV-	VSLLAVDP-AWRLPTA-Y-FR
corn_ (SEQ ID NO:6)	TYIS	AAPEVAA	ISVLAFEKEMRRROPEQKKQFK
soybean_ (SEQ ID NO:8)	TCIM	ERPEIS-	VSLLALQS-LWKEKNQY-LK
Arabidopsis_ (gi 3935185)	TVEIDGVSHTSILKDEIALKEIMKQISIINY--ELANVNAVNE		
corn_ (SEQ ID NO:2)	SIKIRGAQHGTVTDDTALKRVMHEILEANR-----S		
corn_ (SEQ ID NO:4)	MLKVRNVSHTGFLVDDAALAVIISAI-----LRPN		
corn_ (SEQ ID NO:6)	SIKINKAQHSTIVTDDFALHRVIOEIVEANNQK-----IPS		
soybean_ (SEQ ID NO:8)	VVKIDGVSHTSILKDEVALNEIIVGEITSINSHAEGLSLNLFSG		

FIG. 1B



Arabidopsis_(gi 3935185)	MKK-----I-SSHYSVVIAILVVVTMTSMCQAVGSN-----VYPLILVPGNGGNQLEVR
corn_(SEQ ID NO:2)	MAR-IPQVLAPLALLLLPAGLR--ELMIDRRPLPKRCRRREVLLHPLVLVPGLTCSSELDAR
corn_(SEQ ID NO:4)	MVHDMAS-----CSRGGTIVLSKFASTTRRAPKQ-----LPPVVVVVPGYATNELDAR
corn_(SEQ ID NO:6)	MASSLIQQLLSLLLLLPSPLRLREHLSGNHAVSAN-----NEHPIFLVAGVSCSDLEAR
soybean_(SEQ ID NO:8)	MKKEQEGL-KIEVATLTVTVVVVMLSLCTCGASN-----LDPLILIPGNGGNQLEVR
Arabidopsis_(gi 3935185)	LDREYKPSVWCSSWLYPIHKKGGWFRWFDAAVLLSPFT-RCFSDRMMLYYDPDLDDY
corn_(SEQ ID NO:2)	LTDAYRPFRAACDE-----GEGVLRLWTNCSDDLPAHHYVRCFMEQMALVYDPVANDY
corn_(SEQ ID NO:4)	LTELYHPSSPRCA-----HKGKGWFRLYLNYTALEDAADVRCFAEQMATAYDAASDDY
corn_(SEQ ID NO:6)	LTEEYRPSVPHCGA-----MKGKGWFGWLKNSSELLSRDYVQCFFEQMSLVYDPAINEY
soybean_(SEQ ID NO:8)	LTNQYKPSTFICESW-YPLIKKNGWFRLWFDSSVILAPFT-QCFAERMFLHYHQELDDY
Arabidopsis_(gi 3935185)	QNAPGVQTRVPHPFGSTKSLLYLDPRLRDATSYMEHLVKALEKKCGYVNDQTIL
corn_(SEQ ID NO:2)	RNLPGVETRVRNFGSSRGF-QKNPEHTTWSWCFEVLRNELARA-GYRDGDTLF
corn_(SEQ ID NO:4)	RNAQGVETRVPFFGSTRAFYPPDPRNF-SYMDKFVSRLERL-AYRDGENLF
corn_(SEQ ID NO:6)	RNLAGVETRVPNFGSTRAFSHKNPLKSD--WCLGKLRAALEDM-GYRDGDTMF
soybean_(SEQ ID NO:8)	FNTPGVETRVPHPFGSTNSLLYLNPRLKHITGYMAPLVDSLQKL-GYADGETLF
Arabidopsis_(gi 3935185)	GLAASGHPSRVASQFLQDLKQVEKTSSENEGKPVILLS
corn_(SEQ ID NO:2)	APPVPGQPSRSSPATSVGWPSLVEDASRKNRGRKVLFG
corn_(SEQ ID NO:4)	AVAPPGHPSRVADAFFGRRLRLVERASRANGGPPVTIVA
corn_(SEQ ID NO:6)	APPSPGQTSSEVYSRYFKELMELVEAASERTR-KKAVILG
soybean_(SEQ ID NO:8)	GLAAEGHPSQVGSKFLKDLKNLIEEASNSNNGKPVILLS
Arabidopsis_(gi 3935185)	RKYIKHFVALAAPW-GGTISQMKTFASGNTLG-VPLVNPL--LVRRHQRTSESQWLLPS
corn_(SEQ ID NO:2)	DRYIKHFLVAPVPAEGFVKPLQYFVSGSNLMYVPTVSSLEPAFRPMWRTFESSLVNFP
corn_(SEQ ID NO:4)	RRFVRRFVPAAPW-GGVVLGMLTIVAGNNLG-LPFVDPL--ALKGEYRSLQSSLWPLPN
corn_(SEQ ID NO:6)	REHIERLVLVAPTLPGGFLEPVRNFASGTDILYVPATTPLAT--RAMWRSFESAIVNFP
soybean_(SEQ ID NO:8)	KKFIKHFIALSAPW-GGAIDEMYTFASGNTLG-VPLVDPL--LVRDEQRSSESNLWLLPN

FIG. 1A